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(54) NICKEL-HYDROGEN BATTERY FOR ELECTRIC VEHICLE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a single nickel-hydrogen battery for an electric vehicle, having both a high output density and a high energy density, superior in charging/discharging efficiency and heat radiation characteristic, capable of being mounted even in a low-profile automobile, superior in reliability, and capable of securing traveling distance per one charge operation of about 100 km or more.

SOLUTION: In this single nickel-hydrogen battery 10, constituting an assembled battery mounted in an electric vehicle, a height H is set at 140 mm or less, the width of an electrode plate is less than a height thereof, the number of the positive electrode plates is 15-30, the number of the negative electrode plates is 16-31, the distance between two electrode plates is 0.1-0.2 mm, and a battery capacity is 30-80 Ah.

